

CLAIMS

1. A needle-free injection device comprising a service life monitoring system.
2. The needle-free injection device as set forth in claim 1, comprising a counting device for counting the charging and/or injection procedures performed.
3. The needle-free injection device as set forth in claim 2, wherein said counting device is arranged in the injection device itself.
4. The needle-free injection device as set forth in claim 1, comprising a memory for storing at least one of the number of charging and injection procedures performed.
5. The needle-free injection device as set forth in claim 4, wherein said memory is arranged in the injection device itself.
6. The needle-free injection device as set forth in claim 4, wherein said memory is an electric memory.
7. The needle-free injection device as set forth in claim 1, further comprising a disabling device for disabling at least one of a charging procedure and an injection procedure when a predetermined maximum number of the charging or injection procedures is reached.
8. The needle-free injection device as set forth in claim 7, wherein said disabling device is arranged in the injection device itself.

9. The needle-free injection device as set forth in claim 1, further comprising at least one of an optical output device and an acoustic output device for outputting the number of at least one of charging procedures and injection procedures performed.

10. The needle-free injection device as set forth in claim 9, wherein said at least one of an optical output device and an acoustic output device is arranged in the injection device itself.

11. The needle-free injection device as set forth in claim 1, further comprising at least one of an optical output device and an acoustic output device for outputting a warning signal before or when a predetermined maximum number of at least one of charging procedures and injection procedures is reached.

12. The needle-free injection device as set forth in claim 11, wherein said at least one of an optical output device and an acoustic output device is arranged in the injection device.

13. The needle-free injection device as set forth in claim 1, further comprising at least one of an optical output device and an acoustic output device for outputting a warning signal when a predetermined period of time has elapsed.

14. The needle-free injection device as set forth in claim 13, wherein said at least one of an optical output device and an acoustic output device is arranged in the injection device itself.

15. A needle-free injection device for performing injections comprising a charging device for performing injection device charging procedures which exhibits at least one of: a service life monitoring system; a counting device for counting at least one of the charging and injection procedures performed; a memory for storing at least one of the number of charging or injection procedures

performed; a disabling device for disabling at least one of the charging procedure or injection procedure of said injection device when a predetermined maximum number of the charging or injection procedures is reached; at least one of an optical output device and an acoustic output device for outputting the number of at least one of the charging procedures and the injection procedures performed; at least one of an optical output device and an acoustic output device for outputting a warning signal before or when a predetermined maximum number of at least one of the charging procedures and the injection procedures is reached; and at least one of an optical output device and an acoustic output device for outputting a warning signal once a predetermined period of time has elapsed.

16. The needle-free injection device as set forth in claim 15, further comprising an allocation recognition system whereby said charging device identifies a particular needle-free injection device.

17. The needle-free injection device as set forth in claim 1, further comprising a charging device, wherein said charging device comprises a gas store.

18. The needle-free injection device as set forth in claim 17, wherein said gas store is a pressurized gas cartridge.

19. The needle-free injection device as set forth in claim 1, further comprising a charging device, wherein the charging device comprises an electric energy store.

20. A method for monitoring the service life of a needle-free injection device.

21. The method as set forth in claim 20, comprising counting at least one of the number of charging and injection procedures performed by the device.

22. The method as set forth in claim 21, further comprising disabling the device when at least one of a selected maximum number of charging or injection procedures is reached.

23. A rechargeable needle-free injection system comprising:

a rechargeable needle-free injection device for performing injections;

a charger for performing charging procedures for the injection device, said charger comprising:

an injection device service life monitoring unit comprising a counter for counting at least one of the charging procedures or injections performed, a memory for storing at least one of the number of the charging procedures or injections performed, and a disabling device for disabling at least one of the charging procedures or the injection device when a predetermined maximum number of the charging procedures or injections is reached.

24. The system of claim 23, further comprising at least one of an optical output device and an acoustic output device for outputting the number of at least one of the charging procedures and injections performed.

25. The system of claim 23, further comprising at least one of an optical output device and an acoustic output device for outputting a warning signal before or when a predetermined maximum number of at least one of the charging procedures and injections is reached.

26. The system of claim 23, further comprising at least one of an optical output device and an acoustic output device for outputting a warning signal when a predetermined period of time has elapsed.